

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. **(Currently Amended)** A method of making a preform for an enhanced photosensitive fiber comprising the steps of:
 depositing successive layers of optical material the inside a tube using modified chemical vapor deposition; and
 collapsing the successive layers of optical material in a reducing atmosphere with a positive pressure, wherein the positive pressure is 0 to 1.0 torr.
2. **(Cancelled)**
3. **(Currently Amended)** A method according to claim 1 2, wherein the positive pressure is 0 to 0.5 torr.
4. **(Original)** A method according to claim 3, wherein the positive pressure is 0.2 to 0.4 torr.
5. **(Original)** A method according to claim 1, wherein the reducing atmosphere comprises GeCl_4 .
6. **(Original)** A method according to claim 5, wherein the reducing atmosphere further comprises at least one of He, Ar, CO, COH and 2-propanol.
7. **(Original)** A method according to claim 1, wherein the optical material is doped with Ge.
8. **(Original)** A method according to claim 7, wherein the optical material is co-doped with boron.
9. **(Currently Amended)** A method of making an enhanced photosensitive fiber comprising the steps of:

making a preform using modified chemical vapor deposition wherein the preform is collapsed in a reducing atmosphere with a positive pressure, wherein the positive pressure is 0 to 1.0 torr; and

drawing the preform into a fiber.

10. **(Canceled)**

11. **(Currently amended)** A method according to claim 9, wherein the positive pressure is 0 to 0.5 torr.

12. **(Original)** A method according to claim 11, wherein the positive pressure is 0.2 to 0.4 torr.

13. **(Original)** A method according to claim 9, wherein the step of drawing is conducted with a tension of 100 g to 250 g.

14. **(Original)** A method according to claim 13, wherein the step of drawing is conducted with a tension of 150 g to 200 g.

15. **(Original)** A method according to claim 14, wherein the step of drawing is conducted at a temperature of 1950 C to 2100 C.

16. **(Original)** A method according to claim 15, wherein the step of drawing is conducted at a temperature of 1980 C to 2050 C.

17. **(Original)** A method of making a fiber grating comprising the steps of:
 providing an enhanced photosensitive fiber made according to claim 9; and
 exposing the enhanced photosensitive fiber to ultraviolet light to form a grating pattern.

18. **(Original)** The method of claim 17, wherein the step of exposing is completed within 15 minutes.

19. **(Original)** The method of claim 18, wherein the step of exposing is completed within 5 minutes.
20. **(Original)** The method of claim 19, wherein the step of exposing is completed within 1 minute.
21. **(Original)** The method of claim 20, wherein the step of exposing is completed within half a minute.
22. **(Original)** The method of claim 17, wherein the grating pattern forms a fiber Bragg grating.
23. **(Original)** The method of claim 17, wherein the grating pattern forms a long period fiber grating.
24. **(Original)** The method of claim 17, wherein the grating pattern forms a laser stabilization grating.